



**UNITED STATES AIR FORCE
SCHOOL OF AEROSPACE MEDICINE**

**Publications and Presentations
of the Ophthalmology Branch,
Armstrong Laboratory and
USAF School of Aerospace Medicine
1991-2000**

Thomas J. Tredici

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June 2000

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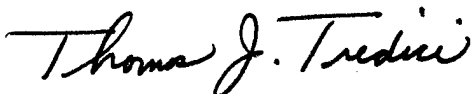
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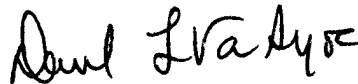
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14. ABSTRACT Aerospace ophthalmology combines the practice of Clinical Ophthalmology and Aerospace Medicine in attempting to solve the visual and ophthalmological problems of the aviator and astronaut. The Ophthalmology Branch of the USAF School of Aerospace Medicine has exclusively performed this task for nearly 85 years. The visual problems and solutions proposed are documented in the publications and invited presentations of Ophthalmology Branch personnel, listed for the years 1991 through 2000. They deal primarily with applied visual and clinical topics; such as, visual standards for flying, the use of contact lenses in aviation, visual illusions and aircraft accidents, air-to-air target acquisition, management of glaucoma in flying personnel, refractive surgery in the aviator, etc.					
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1992 Publications

PRESCRIBING SPECTACLES FOR AVIATORS: USAF EXPERIENCE

Miller, R.E., J.F. Kent, and R.P. Green, Jr.
Aviation, Space and Environmental Medicine, Vol 63, No. 1, Jan 1992

CONTACT LENS WEAR WITH THE PROTECTIVE INTEGRATED HOOD MASK SYSTEM

Dennis R.J., R.E. Miller, R.D. Peterson, and W.G. Jackson
Aviation, Space, and Environmental Medicine, Vol 63, p565-71 July 1992

ARE NAVIGATORS AT INCREASED RISK FOR DEVELOPING MYOPIA

Woessner W.M., J.M. Feaster, R.E. Miller, and R.J. Dennis
Annual Meeting Abstract Issue, Investigative Ophthalmology and Visual Science, Vol. 33(4): 712, March 1992

CATARACT SURGERY AND INTERAOCULAR LENSES IN MILITARY AVIATORS

Moorman D.L. and R.P. Green, Jr.
Aviation Space and Environmental Medicine, Vol 63, p302-307 April 1992

NIGHT VISION MANUAL FOR THE FLIGHT SURGEON

Miller R.E., and T.J. Tredici, et al
AL-SR-1992-0002, April 1992

OCULAR MOTILITY DISORDERS IN MILITARY AVIATORS; THE USAFSAM EXPERIENCE 1975-1989

Knowles J.R. and T.J. Tredici
Abstract: Aviation, Space & Environmental Medicine, Vol 63, No. 7, July 1992

YELLOW LENS EFFECT UPON VISUAL ACQUISITION PERFORMANCE

Provines W.F. and T.J. Tredici
Aviation, Space, and Environmental Medicine, Vol 63, No. 7, July 1992

COUNTRY REPORT

Ivan D.J.
32nd Annual Meeting of ASCC Working Party 61, Auckland NZ, Nov 1992

ADVISORY PUBLICATION ON AIRCREW SPECTACLE FRAMES AND LENSES

Ivan D.J.
32nd Annual Meeting of ASCC Working Party 61, Auckland NZ, Nov 1992

EXCIMER LASER BRIEFING

Ivan D.J.
32nd Annual Meeting of ASCC Working Party 61, Auckland NZ, Nov 1992

1992 Publications (continued)

SOFT CONTACT LENS IN AIRCREW

Ivan D.J.

Create Short Course on Operational Use of Contact Lenses by Military Aircrew, AGARD Working Panel, 21-22 Nov 1992

THE PIGMENTARY DISPERSION DISORDER IN USAF AVIATORS

Peters, D.R., and R.P. Green, Jr.

Aviation, Space, and Environmental Medicine, Vol 63 Dec 1992 p.1049-53

INTRASTROMAL PHOTOREFRACTIVE KERATECTOMY WITH A NEW OPTICALLY COUPLED LASER PROBE

Taboada J., R.H. Poirier, R.E. Yee and R.O. Tio

Refractive and Corneal Surgery, Vol. 8 pp 399-402, 1992

MICRON-SIZED LASER-SUPPORTED PLASMA EFFECT APPLIED TO MICRO SURGERY

Taboada J.

Proceeding on Ophthalmic Technologies II, SPIE Vol. 1644, pp 227-231, 1992

OPHTHALMOLOGY BRANCH

1992 Presentations

CONTACT LENS RESEARCH WITH THE AIRCREW EYE RESPIRATORY PROTECTION CHEMICAL DEFENSE ENSEMBLE

Dennis R.J.

Presented to the Clinical Science Professional Staff, Brooks AFB TX, 20 Feb 92

CONTACT LENS RESEARCH WITH THE AIRCREW EYE RESPIRATORY PROTECTION CHEMICAL DEFENSE ENSEMBLE

Dennis R.J.

Clinical Sciences Professional Staff, Brooks AFB TX, 25 Feb 92

VISION RESEARCH IN THE AEROSPACE VISION LABORATORY

Dennis R.J.

Human Systems Division's Committee on Education, Brooks AFB TX, 25 Feb 92

THE USAF CONTACT LENS EXPERIENCE

Dennis R.J.

Optometry Professional Staff, Willford Hall Medical Center, Brooks AFB TX, 25 Feb 92

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OPHTHALMOLOGY BOARD REVIEW

LoRusso F.J.

University of Texas Health Science Center San Antonio TX, 26 Mar 92

PATHOLOGY REVIEW

LoRusso F.J.

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OPTIC NEURITIS

Ivan D.J.

Aeromedical Grand Rounds, Brooks AFB TX, March 1992

PATHOLOGY REVIEW

LoRusso F.J.

Willford Hall Ophthalmology Residency, April 1992

1992 Presentations (continued)

OCULAR MOTILITY DISORDERS (OMDs) IN MILITARY AVIATORS: THE USAFSAM EXPERIENCE 1975-1989

Knowles J.R. and T.J. Tredici

Aerospace Medical Assn Meeting, Miami Beach, FL, 12 May 92

"DEPTH PERCEPTION AND VISUAL ILLUSIONS", "UNAIDED NIGHT VISION CONCERNS IN THE AEROSPACE ENVIRONMENT, AND "OPERATIONAL ISSUES WITH NIGHT VISION GOGGLES"

Apsey D.A.

Aerospace Physiologists attending a seminar entitled "Operational problems in Aerospace Physiology 1992", Brooks AFB TX, June 1992

AIDED AND UNAIDED NIGHT VISION ISSUES AFFECTING AIRCREW PERFORMANCE AND SAFETY

Apsey D.A.

Aerospace Physiologist Class of 1992, Brooks AFB TX, 22 Jul 92

A CENTRAL USAF SPECTACLE FABRICATION LABORATORY AND SOFT CONTACT LENS MANAGEMENT CENTER

Dennis R.J.

Briefing to Brig Gen George Anderson, HSC/CC, Brooks AFB TX, Aug 1992

AEROSPACE OPHTHALMOLOGY

Tredici T.J.

40th Anniversary Medical School Class "52", University of Pittsburgh, Pittsburgh, PA, 23-24 Oct 92

GEOMETRIC OPTICS AND REFRACTION

LoRusso F.J.

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PHYSICAL OPTICS

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LASER EYE SAFETY RECOMMENDATIONS

Tredici T.J.

Eye Safety and Sports Ophthalmology Committee, American Academy of Ophthalmology Annual Meeting, Dallas TX, 8 Nov 92

TONOMETRY DEMONSTRATION

Tredici T.J.

JCAHPO at American Academy of Ophthalmology Meeting, Dallas TX, 9 Nov 92

1992 Presentations (continued)

COURSE 207 HOW TO DO EXCELLENT SCREENING VISUAL FIELDS WITHOUT AN
\$80,000 GADGET

O'Conner P.S. and T.J. Tredici

American Academy of Ophthalmology Meeting; Dallas, Tx 10 Nov 92

A NEW AIRCREW SPECTACLE FABRICATION LABORATORY FOR THE USE

Dennis R.J.

Briefing to Lt Gen Alexander Sloan, HQ USAF/SG, Bolling AFB DC, 1 Dec 92

THE NEW AIRCREW SPECTACLE FRAME PROGRAM

Dennis R.J.

Triservice Aeromedical Research Panel, Ft. Rucker AL, 3 Dec 92

AN EVALUATION OF THE SOFTPERM CONTACT LENS IN THE SIMULATED
AIRCRAFT

Apsey D.A. and J. Barr

Poster, American Academy of Optometry Annual Meeting, Orlando, FL, 13 Dec 92

NVG PERFORMANCE: A COMPARISON OF TESTING PROCEDURES

Apsey D.A.

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1993 Publications

AEROSPACE OPHTHALMOLOGY UPDATE

Tredici T.J., D.J. Ivan, and R.J. Dennis

Handout, USAFSAM Operational Aeromedical Problems Course, Jan 1993

OCULAR SURVEILLANCE OF LASER WORKERS

Tredici T.J.

Information About Eye Care, American Academy of Ophthalmology Report, March 1993

VISUAL FACTORS IN AIRCRAFT MISHAPS

Tredici T.J. and D.J. Ivan

Handout, USAFSAM April 1993

OCULAR MOTILITY DISORDERS IN MILITARY AVIATORS: THE EFFECTS OF OCULAR MUSCLE SURGERY ON THEIR FLIGHT STATUS

Tredici T.J. and J.R. Knowles

Abstract: Aviation, Space, and Environmental Medicine, Vol 64, No 5 May 1993

NVG VISUAL PERFORMANCE: A COMPARISON OF TESTING PROCEDURES

Apsey D.A.

Poster Aerospace Medical Assn. Meeting, Toronto, CA, Vol 64, No 5 May 1993

OPTIC NEURITIS IN USAF AVIATORS

Ivan D.J. and Cuervo H.

Abstract: Aviation, Space and Environmental Medicine, Vol 64, No 5 May 1993

NVG PERFORMANCE: A COMPARISON OF TESTING PROCEDURES

Silberman W.S., D. Apsey, and D.J. Ivan

Abstract: Aviation, Space, and Environmental Medicine, Vol 64, No 5 May 1993

A DECISION GRID FOR DEMGLINATING DISEASES OF THE CENTRAL NERVOUS SYSTEM FOR APPLICATION IN AEROMEDICAL DISPOSITIONS

Cuervo H. and D.J. Ivan

Abstract: Aviation, Space, and Environmental Medicine, Vol 64, No 5 May 1993

A SURVEY OF U.S.A.F. FLYERS REGARDING THEIR USE OF EXTENDED WEAR CONTACT LENSES (EWSCL)

Moore R.J., and R.P. Green

Abstract: Aviation, Space, and Environmental Medicine, Vol 64, No 5 May 1993

1993 Publications (continued)

CONTRAST SENSITIVITY AND DISABILITY GLARE IN THE MIDDLE YEARS

Yates J.T., J.M. Harrison, R.A. Applegate, and C. Ballentine
A Optical Society of America, Vol. 10, No.8, August 1993

OPTICAL CHARACTERISTICS AND VISUAL CONSEQUENCES OF LASER EYE PROTECTION

Apsey D.A.
Poster American Academy of Optometry Meeting Boston MA, 12 Dec 93

SOFT CONTACT LENS WEAR: A SURVEY OF USAF EYECARE PROFESSIONALS

Dennis R.J., Apsey D.A., and Ivan D.J.
Aviation, Space, and Environmental Medicine 1993; 64(11):1044-7

OCULAR HYPERTENSION: THE USAF EXPERIENCE

Conger L.A. Jr., D.J. Ivan, and T.J. Tredici
RAM Report USAFSAM 1993

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1993 Presentations

AEROSPACE OPHTHALMOLOGY UPDATE

Dennis R.J.
Resented at OAPs, Brooks AFB, 12 Jan 93

AEROSPACE OPHTHALMOLOGY UPDATE

Ivan D.J., and T.J. Tredici
Operational Aeromedical Problems Course USAFSAM, Brooks AFB TX, 23 Jan 93

AEROSPACE OPHTHALMOLOGY UPDATE

Lecture: Tredici T.J.
Operational Aeromedical Problems Course-USAFSAM Brooks AFB TX, Jan 1993

RESULTS OF A CONTACT LENS SURVEY OF USAF EYECARE PROFESSIONALS

Dennis R.J.
Presented to the Alamo Triservice Optometric Society, 8 Feb 93, Brooks AFB TX

THE GERBER LENS MAKING SYSTEM

Dunn B.R.
Presentation to Alamo Triservice Optometric Society, 8 Feb 93, Brooks AFB TX

NIGHT VISION GOGGLES: OPERATIONAL CONCERNS

Apsey D.A.
Lecture to the Alamo Tri-service Optometric Society, 8 Feb 93, Brooks AFB TX

NVG WORKSHOP

Apsey D.A.
Lecture to the Armed Forces Optometric Society at the Southern Council of Optometrists
Annual Meeting, 24 Feb 93, Atlanta GA

OCULAR HAZARDS AND THE EYE

Ivan D.J.
Global Medicine Course USAFSAM, Brooks AFB TX, Feb 1993

USAF LASER ACCIDENT REPORT

Ivan D.J.
Symposium on Lasers in the Modern Battlefield Letterman Army Hospital, S.F., CA, Feb
1993

1993 Presentations (continued)

OCULAR ISCHEMIC SYNDROME: WHERE DO WE FIT IN?

Conaway M.C., Conaway C., Yates J.T., Bowman W., and Carter J.
Presentation at Alamo Resident's Day, University of Texas Health Science Center San Antonio TX, 19-20 Mar 93

OXYGEN AND THE EYE

Yates T.J.
Hyperbaric Fellows at AL/AOH, 31 Mar 93

VISUAL ELECTRODIAGNOSTICS

Yates J.T.
University of Texas Health Science Center San Antonio TX, 26 Mar 93

THE DEPARTMENT OF DEFENSE RESEARCH MODEL

Dennis R.J.
Presented to the conference on Optometric Research, Summit on Optometric Education, Birmingham, AL, 3 Apr 93

VISUAL FACTORS IN AIRCRAFT MISHAPS

Tredici T.J.
Lecture: Aircraft Mishap Investigation and Prevention Course at USAFSAM, Brooks AFB TX, 26 Apr-7 May 93

UNAIDED NIGHT VISION AND OPERATIONAL CONCERNS WITH NVGs

Apsey D.A.
Two 1 hr. lectures given at the Aerospace Physiology Supervisors Course, Brooks AFB TX, 3 May 93

OCULAR MOTILITY DISORDERS IN MILITARY AVIATORS: THE EFFECTS OF OCULAR MUSCLE SURGERY ON THEIR FLIGHT STATUS

Tredici, T.J.
Presented at Aerospace Medical Assn Meeting Toronto, CA, 27 May 93

CLINICAL ASPECTS OF COLOR VISION

Yates J.T.
University of Texas Health Science Center San Antonio TX, 11 Jun 93

INTRODUCTION TO UNAIDED NIGHT VISION AND INTRODUCTION TO NVGs

Apsey D.A.
Two 1 hr. lectures given at the Aerospace Physiology Introductory Course, Brooks AFB TX, 26 Jul 93

1993 Presentations (continued)

CONTACT LENS RESEARCH WITH USAF AIRCREW

Dennis R.J.

Presented to the Univ. of Houston College of Optometry Faculty, Houston, TX, 7 Oct 93

THE USAF AIRCREW SOFT CONTACT LENS PROGRAM

Dennis R.J.

Presented to the Annual Triservice Optometry Seminar, Fitzsimons Army Medical Center, Aurora CO, 18-19 Oct 93

USAF VISION RESEARCH AT ARMSTRONG LABORATORY

Dennis R.J.

Presented to the Annual Triservice optometry Seminar, Fitzsimons Army Medical Center, Aurora CO, 18-19 Oct 93

NIGHT VISION GOGGLE WORKSHOP

Apsey D.A.

Lecture at the first annual Tri-service Optometry Meeting to USAF, USA, USN, USCG, and USPH optometrists, 20 Oct 93, Fitzsimmons Army Medical Center, CO

GLAUCOMA AND TONOMETRY

Tredici T.J.

Lecture: Joint Commission for Allied Health Personnel in Ophthalmology Meeting, Chicago IL, 15 Nov 93

GOLDMANN VISUAL FIELD WORKSHOP, TONOMETRY DEMONSTRATION, RETINOSCOPY WORKSHOP

Linnemeyer P.J.

Joint Commission for Allied Health Personnel in Ophthalmology Annual Meeting, Chicago IL, 15-17 Nov 93

INTRODUCTION TO NIGHT VISION DEVICES

Apsey D.A.

Lecture at AMSUS to U.S.A.F. active, reserve, and guard flight surgeons and optometrists, San Antonio TX, 17 Nov 93

HOW TO DO EXCELLENT SCREENING VISUAL FIELDS WITHOUT AN \$80,000 GADGET

Tredici T.J. and T.D. Tredici

Course #761 American Academy of Ophthalmology Meeting, Chicago IL, 18 Nov 93

1993 Presentations (continued)

AEROSPACE MEDICINE LECTURE

Ivan D.J.

Alliance of Flight Surgeons Assn. of Military Surgeon of the United States, San Antonio
TX, Nov 1993

PUBLICATIONS AND PRESENTATIONS OF THE OPHTHALMOLOGY BRANCH
ARMSTRONG LABORATORY 1991-2000

OPHTHALMOLOGY BRANCH

1994 Publications

1. OCULAR MOTILITY DISORDERS IN MILITARY AVIATORS: THE AEROMEDICAL RED LENS TEST- WORTHWHILE OR WORTHLESS?
Tredici, T.J.
Abstract: Aviation, Space, and Environmental Medicine, Vol 65, No.5 May 1994
2. INTRAOCULAR LENSES AND THE MILITARY AVIATOR
Gooch, J.M., D.J. Ivan, T.J. Tredici, and D. Moorman
Abstract: Aviation, Space, and Environmental Medicine, Vol 65:444, May 1994
3. OPTIC DISC DRUSEN: AEROMEDICAL ISSUES
Thomas, R.A., J.M. Gooch, T.J. Tredici, and D. J. Ivan
Abstract: Aviation, Space and Environmental Medicine, Vol 65:444, May 1994
4. CONTACT LENS WEAR BY USAF AIRCREW MEMBER WITH MEDICAL WAIVERS FOR OCULAR DISORDERS
Tredici, T.J., R.J. Dennis, and D.J. Ivan
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2. OPERATIONAL AEROMEDICAL PROBLEMS COURSE LECTURE
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3. AIRCRAFT MISHAP INVESTIGATION AND PREVENTION COURSE
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4. OCULAR MOTILITY DISORDERS IN MILITARY AVIATORS: THE AEROMEDICAL RED LENS TEST
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5. AEROSPACE OPHTHALMOLOGY UPDATE
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13. CORNEAL ANATOMY & PHYSIOLOGY

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14. SOFT CONTACT LENS MATERIALS

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15. OCULAR COMPLICATION SECONDARY TO CONTACT LENS WEAR

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18. USAF LASER ACCIDENT REPORT

Ivan, D.J.

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20. AEROPHTHALMOLOGY OVERVIEW
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21. COLOR VISION ISSUES IN MODERN MILITARY AVIATION
Ivan, D.J.
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22. REFRACTIVE SURGERY UPDATE
Ivan, D.J.
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26. AEROPHTHALMOLOGY UPDATE
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27. OPERATIONAL SUPPORT ACTIVITIES IN THE CLINICAL SCIENCES DIVISION (AOC)
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28. OPHTHALMOLOGY BRANCH OVERVIEW
Ivan, D.J.
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29. VISION STANDARDS/ SELECTION OVERVIEW
Ivan, D.J.
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30. OPERATIONAL ASPECTS OF COLOR VISION
Ivan, D.J.
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31. COLOR VISION TESTING & METHODOLOGY

Yates, J.T.

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32. AIRCREW LASER THREATS

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1. **CORNEAL ABNORMALITIES DETECTED BY VIDEOKERATOGRAPHY IN
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Baldwin, B.J., R.E. Smith, and D.J. Ivan
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3. **AEROSPACE VISUAL PRINCIPLES AND PROBLEMS**
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5. THE JOHN LANE GUEST SPEAKER
Ivan, D.J.
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Ivan, D.J.
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Tutt, R.C., C.G. Begley, A. Bradley, and L. Thibos
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3. AEROSPACE VISION UPDATE
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5. MONOVISION AND ITS CONSEQUENCES
Perez, J.L., and T.J. Tredici
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6. DOES TRANSLERAL DIODE LASER RETINOPEXY ENHANCE DISPERSION OF VIABLE RETINAL PIGMENT EPITHELIAL CELLS?
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14. REFRACTIVE SURGERY UPDATE
Ivan, D.J.
Canadian Forces Flight Surgeons Course, DCIEM, Toronto, Canada, Mar 98
15. KERATOREFRACTIVE SURGERY IN THE MILITARY
Ivan, D.J., et al
Presented to the Wilmer Ophthalmological Institute Current Concepts in Ophthalmology, Colorado Springs, CO, 15-20 Mar 98
16. OCULAR TRAUMA FOR NON OPHTHALMOLOGIST
LoRusso, F.J.
Presented to Society of Air Force Clinical Surgeons General Meeting, San Antonio, Tx Apr 98
17. AEROSPACE OPHTHALMOLOGY CHALLENGES
Ivan, D.J.
Presented to the Air Force Clinical Surgeons, San Antonio, TX, Apr 98
18. PHOTOREFRACTIVE KERATECTOMY (PRK) IN MYOPIC ACTIVE DUTY US AIR FORCE MEMBERS: PRELIMINARY RESULTS (SG STUDY 95-183)
Ivan, D.J., et al
Society of Air Force Clinical Surgeons Meeting, San Antonio, Texas, Apr 98
19. AEROSPACE VISION PANEL
Ivan, D.J.
Presented to Aerospace Vision Symposium, Aerospace Medical Association Annual Meeting, Seattle WA, May 98
20. US AIR FORCE ENHANCED FLIGHT SCREENING - OPHTHALMOLOGY
Ivan, D.J., and J.C. Caster
Presented to Aerospace Vision Symposium, Aerospace Medical Association Annual Meeting, Seattle WA, May 98
21. THE 1995 USAF OPERATIONAL VISION SURVEY - SAFETY OF FLIGHT ISSUES
Ivan, DJ and J.B. Baldwin.
Presented to Aerospace Vision Symposium, Aerospace Medical Association Annual Meeting, Seattle WA, May 98
22. AEROSPACE VISION UPDATE
Ivan, D.J., et.al.
Presented to Aerospace Vision Symposium, Aerospace Medical Association Annual Meeting, Seattle WA, May 98

1998 Presentations (continued)

23. REFRACTIVE SURGERY IN AVIATORS
Ivan, D.J., et.al.
Presented to Aerospace Vision Symposium, Aerospace Medical Association Annual Meeting, Seattle WA, May 98
24. THE LASER THREAT
Ivan, D.J., et.al.
Presented to Aerospace Vision Symposium, Aerospace Medical Association Annual Meeting, Seattle WA, May 98
25. PROTECTION OF THE AVIATOR VISION FROM HIGH INTENSITY LIGHT
Tredici, T.J.
ASMA Meeting, Seattle, WA, 20 May 98
26. INTRAOCULAR LENSES IN USAF AVIATORS
Tredici, T.J.
ASMA Meeting, Seattle, WA, 19 May 98
27. MILITARY UNIQUE OPHTHALMOLOGY READINESS TRAINING/HUMANITARIAN EYE MISSIONS TO DEVELOPING COUNTRIES
LoRusso, F.J.
Presented to USUHS Ocular Trauma Course, May 98
28. OCULAR TRAUMA FOR NON OPHTHALMOLOGIST
LoRusso, F.J.
Presented to 59 MW TRACS (Trauma Refresher Course for Surgeons), Feb-May 98
29. MODERN COLOUR VISION ISSUES
Ivan, D.J.
Presented to the International Civil Aviation Organization (ICAO) Color Vision Working Group, Seattle Wash, May 98
30. NATO SHORT COURSE: "COLOUR VISION IN MODERN OPERATIONAL ENVIRONMENTS"
Ivan, D.J., et al
Presented 16-18 Jul 98 (Munich, Germany)
Presented 21-23 Jul 98 (Madrid, Spain)
Presented 18-20 Nov 98 (San Antonio, Texas)
31. NATO SHORT COURSE: "NATO-PFP INTRODUCTORY FLIGHT SURGEONS COURSE"
Ivan, D.J., et al
Presented 13-14 Sep 98, Military Medicine Academy, (Kiev, Ukraine)
Presented 16-17 Sep 98, Polish Air Force Institute of Aviation Medicine, (Warsaw, Poland)
Presented 20-21 Sep 98, Aeromedical Hospital of Hungary, (Budapest, Hungary)
32. PHYSIOLOGY
LoRusso, F.J.
Presented to University of Texas Health Science Center, San Antonio TX, Oct 98

1998 Presentations (continued)

33. RETINAL DETACHMENT

LoRusso, F.J.

Presented to University of Texas Health Science Center, San Antonio TX, Oct 98

34. COLOUR IN MODERN OPERATIONAL ENVIRONMENTS

Ivan, D.J., et al

Presented to NATO-RTO Human Factors and Medicine Panel, San Diego, CA,
Oct 98

35. OCULAR TRAUMA IN MILITARY AVIATORS

Tredici, T.J., Angle B.N., Ivan, D.J., and J.P. Perez

Poster #308, AAO Meeting, New Orleans, LA, 9 Nov 98

36. GLAUCOMA REVIEW AND TONOMETRY DEMONSTRATION

Tredici, T.J.

Lecture JCAHPO Continuing Education Program, American Academy of Ophthalmology
Meeting, New Orleans, LA, 7-11 Nov 98

37. THE PATHOLOGY OF OCULAR TRAUMA

LoRusso, F.J.

Presented to AMSUS 1998 National Meeting, November 98

38. USAF COUNTRY REPORT

Ivan, D.J., et al

Working Party, 38th ASCC Meeting, Pensacola, FL, Nov 98

PUBLICATIONS AND PRESENTATIONS OF THE OPHTHALMOLOGY BRANCH
USAF SCHOOL OF AEROSPACE MEDICINE

OPHTHALMOLOGY BRANCH

1999 Publications

1. AEROSPACE OPHTHALMOLOGY PRIMARY COURSE LECTURES
T.J. Tredici, (written and edited)
USAFSAM, Brooks AFB, TX, March 1999
2. LOW CONTRAST VISUAL ACUITY FOLLOWING MYOPIC
PHOTOREFRACTIVE KERATECTOMY (PRK) IN US AIR FORCE MEMBERS
D.A. Johns, B. Baldwin, T.J. Tredici, et.al.
Abstract: American Academy of Ophthalmology Program, Nov 99
3. THE 1995 AIRCREW OPERATIONAL VISION SURVEY: RESULTS,
ANALYSIS, AND RECOMMENDATIONS
B. Baldwin, R.J. Dennis, and T.J. Tredici, et.al.
SAM-AAF-BR-TR-1999-0003, May 1999
4. OCULAR PROBLEMS OF THE AGING MILITARY AVIATOR
T.J. Tredici, and D.J. Ivan
Abstract: AGARD, Toulon, France, Oct 1999
5. INTRAOCULAR LENSES IN MILITARY AIRCREW
D.J. Ivan, and T.J. Tredici
Abstract: AGARD, Toulon, France, Oct 1999
6. LETTER TO THE EDITOR: YET ANOTHER "CAUSE" OF MYOPIA
T.J. Tredici
Ophthalmology Times, Jun 1999
7. AIRCREW VISORS AND COLOR VISION PERFORMANCE: A COMPARITIVE
(PILOT STUDY) ANALYSIS
P.A. Young, D.J. Ivan, and J.L. Perez-Becerra
Aerospace and Environmental Medicine, Vol 70, #4, April 99
8. OCULAR PROBLEMS OF THE AGING MILITARY AVIATOR: PRESBYOPIA
T.J. Tredici, and D.J. Ivan
Abstract: Aerospace and Environmental Medicine, Vol 70, #4, Apr 1999
9. INITIAL EVALUATION OF PHOTOREFRACTIVE KERATECTOMY IN USN
AND USMC AVIATORS
S.C. Schallhorn, D.J. Tanzer, S.E. Kaupp, et al
Aerospace and Environmental Medicine, Vol 70, #4, April 99
10. THE RECOMMENDATIONS OF NATO RTO WORKING GROUP 24 ON
"OPERATIONAL COLOR VISION IN MODERN AVIATION"
D.J. Ivan, J.P. Menu, A. Leger, et.al.
Abstract: Aerospace and Environmental Medicine, Vol 70, #4, April 99

1999 Publications (continued)

11. THE USE OF AGAR IN THE IN THE OPHTHALMIC PATHOLOGY LAB
F.J. LoRusso and R. Font
Ophthalmology, Nov 1999
12. SURGICAL REMOVAL OF SUBFOVEAL CHOROIDAL
NEOVASCULARIZATION IN AGE-RELATED MACULAR DEGENERATION
F.J. LoRusso, P. Merrill, E.M. Sax, et.al.
Ophthalmology, May 1999
13. HIGH AND LOW CONTRAST VISUAL ACUITY FOLLOWING MYOPIC PRK
IN US AIR FORCE MEMBERS
R.C. Tutt, J.B. Baldwin, D.A. Johnson, et.al..
Abstract: Optometry and Vision Science, 76(12s), 260, Dec 99
14. EVALUATION OF VISUAL PERFORMANCE WITH NIGHT VISION GOGGLES
AFTER PRK
S.E. Kaupp, S.E. Shallhorn, J. Baldwin, et.al.
Abstract: Optometry and Vision Science, 76(12s), 260, Dec 99
15. LOW CONTRAST VISUAL ACUITY FOLLOWING MYOPIC
PHOTOREFRACTIVE KERATECTOMY IN ACTIVE DUTY U.S. AIR FORCE
MEMBERS
D.A. Johnson, J.B. Baldwin, F.J. LoRusso, et.al.
Abstract: Optomerty and Vision Science, 76(12s), 260, Dec 99

OPHTHALMOLOGY BRANCH

1999 Presentations

1. AEROSPACE OPHTHALMOLOGY LECTURES (6 TOPICS)
T.J. Tredici
Presented at Univ of Texas Medical Branch, Galveston, TX, Aug 1999
2. OCULAR PROBLEMS OF THE AGING MILITARY AVIATOR: PRESBYOPIA
T.J. Tredici
Presented at Aerospace Medical Association Meeting, Detroit MI, May 1999
3. OPERATIONAL VISION UPDATE
D.J. Ivan
Presented to Team Aerospace Operational Problems Course, USAFSAM, San Antonio, TX, Jan 99
4. REFRACTIVE SURGERY IN THE MILITARY
D.J. Ivan
Presented to the 1999 Canadian Forces Advanced Flight Surgeon's Course, DCIEM, Toronto, Canada, Feb 99
5. 1999 AEROSPACE VISION UPDATE
D.J. Ivan.
Presented to the 1999 Canadian Forces Advanced Flight Surgeon's Course, DCIEM, Toronto, Canada, Feb 99
6. REPORT OF THE NATO WORKING GROUP ON ACUTE INCAPACITATION FROM LASERS
D.J. Ivan
Presented at the 20th Lasers on the Modern Battlefield Course, Sponsored by USAMRD, Brooks AFB TX, Feb 99
7. USAF LASER RESEARCH AND THREAT ASSESSMENT
D.J. Ivan
Presented to the International Civil Aviation Organization (ICAO), Laser Threat Working Group, Montreal, Canada, Mar 99
8. KERATOREFRACTIVE SURGERY IN THE MILITARY
D.J. Ivan
Presented at the Current Concepts in Ophthalmology Course Sponsored by the Wilmer Eye Institute of Johns Hopkins University, Vail, CO, Mar 99
9. MODERN OPERATIONAL AIRCREW VISION ISSUES
D.J. Ivan
Presented at the Current Concepts in Ophthalmology Course Sponsored by the Wilmer Eye Institute of Johns Hopkins University, Vail, CO, Mar 99

1999 Presentations (continued)

10. AIRCREW LASER THREAT AND LASER EYE PROTECTION
D.J. Ivan
Presented at the Current Concepts in Ophthalmology Course Sponsored by the Wilmer Eye Institute of Johns Hopkins University, Vail, CO, Mar 99
11. AIRCREW LASER PROTECTION ISSUES
D.J. Ivan
Presented at the Laser Safety Standard Working Group (LSSWG), USHUS, Bethesda, MD, Mar 99
12. REPORT OF THE NATO-AGARD LASER WORKSHOP
D.J. Ivan
Presented at the NATO-RTO Human Factors and Medicine Panel Symposium, Antalya, Turkey, Apr 99
13. KERATOREFRACTIVE SURGERY IN THE MILITARY
D.J. Ivan
Presented at the RAF Diploma in Aviation Medicine, RAF Henlow, UK, Apr 99
14. NIGHT VISION DEVICES
D.J. Ivan
Presented at the RAF Diploma in Aviation Medicine, RAF Henlow, UK, Apr 99
15. THE LASER THREAT AND LASER EYE PROTECTION
D.J. Ivan
Presented at the RAF Diploma in Aviation Medicine, RAF Henlow, UK, Apr 99
16. OPERATIONAL VISION ISSUES
D.J. Ivan
Presented at the RAF Diploma in Aviation Medicine, RAF Henlow, UK, Apr 99
17. RECOMMENDATIONS AND CONCLUSIONS OF THE NATO-AGARD WORKING GROUP 24: OPERATIONAL COLOR VISION ISSUES IN MODERN AVIATION
Ivan, et.al.
Presented at Aerospace Medical Association Annual Meeting, Detroit, MI, May 99
18. PREDICTING VISUAL PERFORMANCE OF NIGHT VISION GOGGLES (NVG) WITH HIGH AND LOW CONTRAST EYELANE CHART ACUITY
Baldwin, Ivan, LoRusso, Tutt, Hiers, and Thompson
ARVO, Sarasota Springs, Florida, May 99
19. KERATOREFRACTIVE SURGERY IN THE MILITARY/UPDATE OF USAF PRK STUDY
D.J. Ivan
Presented at DCIEM, Toronto, Canada Jun 99
20. KERATOREFRACTIVE SURGERY ISSUES IN MICROGRAVITY
D.J. Ivan
Presented at NASA Johnson Space Center, Houston, Texas Jun 99

1999 Presentations (continued)

21. MONOVISION AND THE LASER THREAT

D.J. Ivan

Invited speaker; presented at the Civil Aviation Medical Association (CAMA) Annual Scientific Meeting, Toronto, Canada, 15-18 Sept 99

22. INTRAOCULAR LENSES IN MILITARY AIRCREW

Ivan DJ and Tredici TJ

Presented and Published in Proceedings of NATO-RTO Human Factors and Medicine Panel Symposium, Toulon, France, Oct 99

23. OCULAR PROBLEMS OF THE AGING MILITARY AVIATOR

Tredici TJ and Ivan DJ

Presented and Published in Proceedings of NATO-RTO Human Factors and Medicine Panel Symposium, Toulon, France, Oct 99

24. USAF NATIONAL REPORT

D.J. Ivan

ASCC WP61 Meeting, 39th Adelaide, Australia (Proceedings and Presentation), Nov 99

25. STRATEGIES FOR ALTERING THE DISTRIBUTION OF ENERGY TO MINIMIZE OPTICAL ABERRATIONS FROM CLINICAL EXCIMER LASER PHOTOABLATION

J.B. Baldwin

Presented to the American Academy of Optometry Meeting, Section on Public Health and Environmental Optometry, Symposium on LASERS-Ocular Effects, Hazards, and Protection, Seattle, WA, Dec 99

26. USAF PRK STUDY: DESIGN, GOALS AND 6/12 MONTH RESULTS

J.B. Baldwin, and R.C. Tutt

Presented to the Alamo Tri-Service Optometric Society, San Antonio, TX, Nov 99

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PUBLICATIONS AND PRESENTATIONS OF THE OPHTHALMOLOGY BRANCH
USAF SCHOOL OF AEROSPACE MEDICINE

OPHTHALMOLOGY BRANCH

2000 Publications

1. REFRACTIVE SURGERY IN USAF AIRCREW
D.J. Ivan
Abstract: Aviation, Space and Environmental Medicine, Vol 71, #1, Mar 2000
2. PREDICTING VISUAL PERFORMANCE IN USERS OF NIGHT VISION GOGGLES (NVG)
J.B. Baldwin, B. Thompson, T.J. Yates, Johnson DA, LoRusso FJ, Tredici TJ.
Abstract: Aviation, Space and Environmental Medicine, Vol 71, #1, Mar 2000
3. OVERVIEW OF THE USAF PHOTOREFRACTIVE KERATECTOMY (PRK) RESEARCH STUDY (PANEL)
D.J. Ivan, Tredici TJ.
Abstract: Aviation, Space and Environmental Medicine, Vol 71, #1, Mar 2000
4. USAF PRK STUDY-SURGICAL METHODOLOGY AND COMPLICATION PROFILE FOLLOWING MYOPIC PHOTOREFRACTIVE KERATECTOMY (PRK)
D.A. Johnson, S.G. Waller, J.B. Baldwin, et.al.
Abstract: Aviation, Space and Environmental Medicine, Vol 71, #1, Mar 2000
5. USAF PHOTOREFRACTIVE KERATECTOMY (PRK) STUDY-PRELIMINARY VISUAL AND REFRACTIVE ERROR OUTCOMES
F.J. LoRusso, R.C. Tutt, J.B. Baldwin, et.al.
Abstract: Aviation, Space and Environmental Medicine, Vol 71, #1, Mar 2000
6. CONTRAST SENSITIVITY, GLARE AND PRK-A PROGRESS REPORT
T.J. Yates, K.W. Stevens, R.S. Linnemeyer, et.al.
Abstract: Aviation, Space and Environmental Medicine, Vol 71, #1, Mar 2000
7. NIGHT VISION GOGGLE ACUITY AFTER PHOTOREFRACTIVE KERATECTOMY (PRK)
R.C. Tutt, J.B. Baldwin, D.J. Ivan, T.J. Tredici, et al.
Abstract: Aviation, Space and Environmental Medicine, Vol 71, #1, Mar 2000
8. PRESENT AND FUTURE USAF POLICY ON REFRACTIVE SURGERY
S.G. Waller, D.J. Ivan, J.B. Baldwin, et.al.
Abstract: Aviation, Space and Environmental Medicine, Vol 71, #1, Mar 2000
9. MELANOCYTOMA OF THE CILIARY BODY
F.J. LoRusso and R. Font
Ophthalmology, Apr 2000
10. TREATMENT OF GLAUCOMA IN AVIATORS
T.J.Tredici and D.J. Ivan
Abstract: Aviation, Space and Environmental Medicine, Vol 71, #1, Mar 2000

2000 Publications (continued)

11. COMPARABILITY OF 4 METHODS OF MEASURING PUPIL SIZE
R.L. Goodman, R.D. Allen, D.A. Johnson, et.al.
Poster, Association for Vision in Research and Ophthalmology Meeting, Ft
Lauderdale FL, May 2000
12. SURGICAL REMOVAL OF SUBFOVEAL CHOROIDAL
NEOVASCULARIZATION IN AGE-RELATED MACULAR DEGENERATION
D.A. Johnson, J.B. Baldwin, F.J. LoRusso, et.al.
Poster: Association for Vision in Research and Ophthalmology Meeting, Ft.
Lauderdale FL, May 2000
13. IS PUPIL SIZE CORRELATED WITH VISUAL AND CONTRAST ACUITY
BEFORE AND AFTER PRK?
J.B. Baldwin, R.C. Tutt, R. Allen, TJ Tredici, JT Yates, et al.
Poster: Association for Vision in Research and Ophthalmology Meeting, Ft.
Lauderdale FL, May 2000
14. QUANTITATIVE MEASUREMENT OF THE FORCES NECESSARY TO FOLD
ALCON ACRYSOFT INTRAOCULAR LENSES (IOL)
B. Chacko, J. Croley, and J. Taboada.
Presented at ARVO, Ft. Lauderdale, FL, May 2000
15. POST PRK CORNEAL SCATTER MEASUREMENTS WITH A NOVEL
SCANNING CONFOCAL SLIT PHOTON COUNTER IN OPHTHALMIC
TECHNOLOGIES X
J. Taboada, D. Gaines, B. Baldwin, et.al.
Proc. SPIE 3908, pp 50-59, (2000)
16. MEASUREMENTS OF THE POSTERIOR POLE OF THE RETINA
Tredici, T.J.
Handout for AMP and RAM courses USAFSAM Aug 2000
17. THE MANAGEMENT OF GLAUCOMA IN USAF AVIATORS
Tredici, T.J.
Abstract AAO Poster – Dallas, Tx Oct 2000

OPHTHALMOLOGY BRANCH

2000 Presentations

1. TREATMENT OF GLAUCOMA IN AVIATORS

T.J. Tredici and D.J. Ivan

Poster: Presented at Aerospace Medical Association Meeting, Houston TX, May 2000

2. MODERN OPERATIONAL AEROSPACE OPHTHALMOLOGY COURSE

T.J. Tredici and D.J. Ivan

Presented at a Short Course AGARD/RTO, Ramstein AFB, GE, Mar 2000

3. APPLIED ANATOMY & PHYSIOLOGY OF THE EYE

T.J. Tredici and D.J. Ivan

Presented at a Short Course AGARD/RTO, Ramstein AFB, GE, Mar 2000

4. VISUAL ACUITY IN AVIATION

T.J. Tredici

Presented at a Short Course AGARD/RTO, Ramstein AFB, GE, Mar 2000

5. CONTACT LENSES IN AVIATION

T.J. Tredici

Presented at a Short Course AGARD/RTO, Ramstein AFB, GE, Mar 2000

6. IOLS IN AVIATION

T.J. Tredici

Presented at a Short Course AGARD/RTO, Ramstein AFB, GE, Mar 2000

7. VISION IN MILITARY AVIATION

T.J. Tredici

Presented at a Short Course AGARD/RTO, Ramstein AFB, GE, Mar 2000

8. KERATOREFRACTIVE SURGERY IN THE USAF

D.J. Ivan

Presented at the Canadian Forces Advanced Flight Surgeon Course; DCIEM, Toronto, CA, 14 Feb 00

2000 Presentations (continued)

9. OPERATIONAL AEROSPACE OPHTHALMOLOGY ISSUES

D.J. Ivan

Presented at the Canadian Forces Advanced Flight Surgeon Course; DCIEM, Toronto, CA, 14 Feb 00

10. THE USAF PRK STUDY

D.J. Ivan

Presented at the Lasers on the Modern Battlefield 21st Annual Conference, San Antonio, TX, Mar 00

11. THE MANAGEMENT OF GLAUCOMA IN USAF AVIATORS

Tredici T.J., D.J. Ivan

Presented at the AAO Meeting Dallas, Tx Oct. 2002

12. OCULAR PHOTOTOXICITY AND SUN PROTECTION

D.J. Ivan

Presented at the Johns Hopkins University, Wilmer Eye Institute, "Current Concepts in Ophthalmology" Symposium, Vail CO, 13-14 Mar 00

13. REFRACTIVE SURGERY IN THE USAF

D.J. Ivan

Presented at the Johns Hopkins University, Wilmer Eye Institute, "Current Concepts in Ophthalmology" Symposium, Vail CO, 13-14 Mar 00

14. INTRAOCULAR LENSES IN MILITARY AIRCREW

D.J. Ivan

Presented at the Johns Hopkins University, Wilmer Eye Institute, "Current Concepts in Ophthalmology" Symposium, Vail CO, 13-14 Mar 00

15. NIGHT VISION AND NIGHT VISION DEVICES

D.J. Ivan

Presented at the NATO-RTO Short Course on "Modern Aerospace Ophthalmology", Ramstein AB, GE, 27-28 Mar 00

16. OCULAR PROTECTION AND FILTERS

D.J. Ivan

Presented at the NATO-RTO Short Course on "Modern Aerospace Ophthalmology", Ramstein AB, GE, 27-28 Mar 00

2000 Presentations (continued)

17. LASERS AND COMBAT LASER EYE INJURIES

D.J. Ivan

Presented at the NATO-RTO Short Course on "Modern Aerospace Ophthalmology", Ramstein AB, GE, 27-28 Mar 00

18. INTERNAL AND EXTERNAL EYE DISEASES

D.J. Ivan

Presented at the NATO-RTO Short Course on "Modern Aerospace Ophthalmology", Ramstein AB, GE, 27-28 Mar 00

19. REFRACTIVE SURGERY IN THE MILITARY

D.J. Ivan

Presented at the NATO-RTO Short Course on "Modern Aerospace Ophthalmology", Ramstein AB, GE, 27-28 Mar 00

20. COLOR VISION

D.J. Ivan

Presented at the NATO-RTO Short Course on "Modern Aerospace Ophthalmology", Ramstein AB, GE, 27-28 Mar 00

21. KERATOREFRACTIVE SURGERY IN THE USAF

Presented at the Canadian Forces Advanced Flight Surgeon Course; DCIEM, Toronto, CA, 14 Feb 00

22. OPERATIONAL AEROSPACE OPHTHALMOLOGY ISSUES

Presented at the Canadian Forces Advanced Flight Surgeon Course; DCIEM, Toronto, CA, 14 Feb 00

23. THE USAF PRK STUDY

Presented at the Lasers on the Modern Battlefield 21st Annual Conference, San Antonio, TX, Mar 00

24. AN UPDATE ON THE INTERNATIONAL CIVIL AVIATION ORGANIZATION LASER EMITTER AND FLIGHT SAFETY STUDY GROUP (LEFSSG)

Presented at the Lasers on the Modern Battlefield 21st Annual Conference, San Antonio, TX, Mar 00

25. OCULAR PHOTOTOXICITY AND SUN PROTECTION

D.J. Ivan

Presented at the Johns Hopkins University, Wilmer Eye Institute, "Current Concepts in Ophthalmology" Symposium, Vail CO, 13-14 Mar 00

26. REFRACTIVE SURGERY IN THE USAF

D.J. Ivan

Presented at the Johns Hopkins University, Wilmer Eye Institute, "Current Concepts in Ophthalmology" Symposium, Vail CO, 13-14 Mar 00

27. INTRAOCULAR LENSES IN MILITARY AIRCREW

D.J. Ivan

Presented at the Johns Hopkins University, Wilmer Eye Institute, "Current Concepts in Ophthalmology" Symposium, Vail CO, 13-14 Mar 00

2000 Presentations (continued)

28. COLOR VISION ISSUES IN AVIATION

D.J. Ivan

Presented at the Johns Hopkins University, Wilmer Eye Institute, "Current Concepts in Ophthalmology" Symposium, Vail CO, 13-14 Mar 00

29. THE USAF PRK STUDY

D.J. Ivan and T.J. Tredici

Panel; Panel Chairman; Presented at Aerospace Medical Association Annual Meeting, Houston, TX, May 00

30. PREDICTING VISUAL PERFORMANCE IN USERS OF NIGHT VISION GOGGLES

Baldwin, Ivan, et al.

Presentation at Aerospace Medical Association Annual Meeting, Houston, TX, May 00

31. INTRAOCULAR LENSES IN MILITARY AICREW

D.J. Ivan

Presented and published in the Proceedings of the 48th International Congress of the International Academy of Aviation and Space Medicine, Rio de Janeiro, Brazil, Sept 00

32. USAF NATIONAL REPORT

D.J. Ivan

ASCC WP61 40th Meeting, Toronto, Canada, 7-13 Nov 00

33. AEROSPACE OPHTHALMOLOGY UPDATE

D.J. Ivan

Presentation to the Alliance of ANG Flight Surgeons, Association of Military Surgeons of the United States (AMSUS), Las Vegas, NV, 5 Nov 00

34. KERATOREFRACTIVE SURGERY IN THE MILITARY

Ivan, D.J.

Presented at the RAF Diploma in Aviation Medicine Course, RAF Henlow, UK Apr 00

35. NIGHT VISION DEVICES

Ivan, D.J.

Presented at the RAF Diploma in Aviation Medicine Course, RAF Henlow, UK Apr 00

36. THE LASER THREAT AND LASER PROTECTION

Ivan, D.J.

Presented at the RAF Diploma in Aviation Medicine Course, RAF Henlow, UK Apr 00

37. OPERATIONAL VISION ISSUES

Ivan, D.J.

Presented at the RAF Diploma in Aviation Medicine Course, RAF Henlow, UK Apr 00

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